BULLETIN 311B/RF
NAVSHIPS 0967-173-7040
T. O. 31W4-4-5-1063
VOLUME 4 (Of 4 Volumes)

TECHNICAL MANUAL
28 KEYBOARD SEND-RECEIVE (KSR)
AND RECEIVE-ONLY (RO)
TELETYPEWRITER SETS

TELETYPETELETYPE®
CORPORATION
5555 TOUHY AVENUE, SKOKIE, ILLINOIS
INTRODUCTION

Volumes 3 and 4 have been added to Bulletin 311B to include Radio Frequency Interference Suppression features for the 28 Keyboard Send-Receive (KSR) and Receive-Only (RO) Teletypewriter Sets. These volumes are identified by an RF suffix and must be used with Volumes 1 and 2 which contain literature for the standard features. Volumes 1 and 2 must be used with all sets whether RFI modified or not.

Volume 3, identified as 311B/RF (NAVSHIPS 0967-173-7030), provides descriptive information and parts ordering information peculiar to sets with RFI features installed.

Volume 4, identified as 311B/RF (NAVSHIPS 0967-173-7040), provides wiring diagrams for sets and their components that are equipped with RFI features.

Each volume is made up of a group of appropriate independent sections. The sections are complete within themselves; they are separately identified by title and section number and the pages of each section are numbered consecutively, independent of other sections.

The identifying number of a section, a 9-digit number, appears at the top of each page of the section, in the left corner of left-hand pages and the right corner of right-hand pages.

To locate specific information, refer to the table of contents. The name of the involved component, the title of the section, and the 9-digit section number may then be found. The sections are arranged in the order shown in the table of contents. Turn to page one of the section indicated where the contents of the section will be found (except where a section is small and does not require a listing of contents).
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28 KEYBOARD SEND-RECEIVE (KSR) AND RECEIVE-ONLY (RO) TELETYPEWRITER SETS
(WITH RFI SUPPRESSION)

WIRING DIAGRAMS

1. GENERAL

1.01 This section contains the wiring diagrams for the 28 Keyboard Send-Receive and Receive-Only Teletypewriter Sets (page printers only including multiple-mounted sets) listed in the charts of Section 573-600-100TC.

1.02 The wiring diagram index lists the equipment involved, the number of the wiring diagram followed by the type (A for actual, S for schematic), the number of diagram sheets, and the number of the wiring diagram package in which the diagram may also be found. The wiring diagrams are listed in numerical order.

2. WIRING DIAGRAM INDEX

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<td>Power Supply Circuit Board</td>
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<tr>
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<td>321268 S</td>
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<tr>
<td>SMD Circuit Card</td>
<td>323810 S</td>
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Page 2
2 Pages and Attachments
I. FOR OPERATION ON 50-60 CYCLE 110V A.C.
   REMOVE STRAP "A" AND CONNECT PLUG (1)
   INTO PLUG (2).

II. FOR OPERATION ON 110V DC OR 25 CYCLE A.C.
    CONNECT 100 OHM RESISTOR OF 104851
    SET OF PARTS FOR TABLE APPLICATION AS SHOWN
    AND CONNECT PLUG (1) INTO PLUG (4) AND
    PLUG (3) INTO PLUG (2).

3. CORD TO BE SUPPLIED AS NEEDED BY THE
   CUSTOMER.

4. FIELD COLOR CODE:
   BK-BLACK
   BR-BROWN
   BL-BLUE
   S-SLATE
   G-GREEN
   O-ORANGE
   Y-YELLOW
   R-RED
   W-WHITE
   P-PURPLE

NOTE 1:
   FOR POWER CONNECTION SEE FIG. 1.
   MOTOR PW200, 201, 202, 203, 204, 205
   ACTUAL.

NOTE 2:
   FOR POWER CONNECTION SEE FIG. 2.
   MOTOR PW206, 208—115V A.C. 60 CYCLE
   SYNCHRONOUS INDUCTION MOTOR.
SYNCHRONOUS MOTOR UNITS

NOTES

1. Synchronous motor operates on regulated frequency (±0.75%) maximum ac only.

2. Connect either wire to designated terminals of unit terminal block, per wiring diagram of associated unit.

3. Motor leads of same color are interchangeable.

4. External noise suppression network consisting of 100 ohm, 1/2 watt resistor in series with 0.25 mfd capacitor connected across yellow and brown wires. (For LMU 5, 6, 7, 8)

5. Motor ground lead (green) terminal must be fastened to mounting cradle of motor under separate ground screw only. A screw used for another purpose cannot be used for grounding (Underwriters Laboratories Requirement).

6. Wire color code:
   - BK - Black
   - R - Red
   - BL - Blue
   - O - Orange
   - BR - Brown
   - Y - Yellow
   - P - Purple
   - S - Slate
   - W - White

7. LMU 3, 5, 12, 15, 20, 37, 42, 46, 49: starting capacitor value
   - 0.75-6.1 mfd
   - 3.15, 21, 30, 33
   - 36, 37, 38, 42
   - 43-48 mfd

8. LMU 19, 20, 24, 26, 31, 45, 56: starting capacitor value
   - 0.75-6.1 mfd

9. Wire color code for LMU 5, 6, 7, 8 only:
   - BK - Black
   - R - Red
   - BL - Blue
   - O - Orange
   - BR - Brown
   - Y - Yellow
   - P - Purple
   - S - Slate
   - W - White

10. LMU 50, 55, 56, 57: starting capacitor value
    - 0.75-6.1 mfd

11. LMU 35, 37, 42, 46, 49: starting capacitor value
    - 0.75-6.1 mfd

12. LMU 19, 12, 20, 24, 26, 31, 45, 56: starting capacitor value
    - 0.75-6.1 mfd

13. Certain LMU 35's have this wiring.
1. A. AC SERIES MOTOR UNITS OPERATE ON UN-REGULATED AC POWER.
   B. ASSOCIATED LESU MUST BE EQUIPPED WITH CAPACITOR-RESISTOR ASSEMBLY FOR DC OPERATION OF GOVERNED MOTORS.

2. CONNECT EITHER WIRE TO DESIGNATED TERMINALS OF UNIT TERMINAL BLOCK, PER WIRING DIAGRAM OF ASSOCIATED UNIT.

3. MOTOR LEADS OF SAME COLOR ARE INTERCHANGEABLE.

4. MOTOR LEADS ARE ENCLOSED IN APPROXIMATELY 10° LONG COPPER SHIELDING FASTENED TO MOTOR AND CONTROL PARTS COMPARTMENT. (FOR LMU28).

5. LMU6, 13 (UNIVERSAL) WITHOUT RADIO FREQUENCY SUPPRESSORS FOR USE ON EITHER 115V AC 50-60 OR 115V DC POWER SUPPLY (NOTE 13).

6. LMU 23 (48 VOLS) WITHOUT RADIO FREQUENCY SUPPRESSORS FOR USE ON 48 VOLT DC POWER SUPPLY ONLY (NOTE 18).

LMU 28, 32, 39, 47 (UNIVERSAL) WITH RADIO FREQUENCY SUPPRESSORS FOR USE WITH EITHER 115V AC 50-60-115V DC POWER SUPPLY (NOTE 18).

LMU 29 (48 VOLS) WITH RADIO FREQUENCY SUPPRESSORS FOR USE ON 48 VOLT DC POWER SUPPLY ONLY.

LMU 57, (115 VOLS AC) WITHOUT RADIO FREQUENCY SUPPRESSORS FOR USE ON 115V AC ONLY.

LMU 60, 61 (115 VOLS AC) WITH RADIO FREQUENCY SUPPRESSORS FOR USE ON 115V AC ONLY.
NOTES:

WIRING LEGEND:

DISTANT TERMINATING AREA

DISTANT TERMINAL DESIGNATION

WIRING COLOR CODE

COLOR CODE

BK - BLACK
R - RED
G - GREEN
P - PURPLE
W - WHITE
S - SLATE

CONNECTOR VIEWED FROM SOLDER TERMINAL ENDS.

GROUND SCREW ON RIGHT SIDE OF TRANSFORMER.

THE NUMBERS ENCLOSED BY PARENTHESES ARE USED FOR REFERENCE AND ARE NOT NECESSARILY SHOWN ON THE PARTS.

ASSOCIATED CABLES
173877 COVER CONNECTOR CABLE
173879 BASE CONNECTOR CABLE
304520 MARGIN LAMP CABLE
157278 COPYRIGHT LAMP CABLE
164384 TRANSFORMER CABLE

ASSOCIATED CABLES

1. DISTANT TERMINAL DESIGNATION

2. WIRING COLOR CODE

3. CONNECTOR VIEWED FROM SOLDER TERMINAL ENDS.

4. GROUND SCREW ON RIGHT SIDE OF TRANSFORMER.

5. THE NUMBERS ENCLOSED BY PARENTHESES ARE USED FOR REFERENCE AND ARE NOT NECESSARILY SHOWN ON THE PARTS.

6. ASSOCIATED CABLES

173877 COVER CONNECTOR CABLE
173879 BASE CONNECTOR CABLE
304520 MARGIN LAMP CABLE
157278 COPYRIGHT LAMP CABLE
164384 TRANSFORMER CABLE
NOTE 11.
FOR PROPER R.F. FILTERING, POLARITY OF FILTERS STRAP WITH NEGATIVE (-) AND "SPACING" POSITIVE (+) MUST BE MAINTAINED. UNIT AS FURNISHED IS 8R - BROWN W - 8R - WHITE - BROWN.

COLOR CODE:
- BLUE (RESISTANCE: UNI)
- BLACK (RESISTANCE: UNI)
- WHITE (RESISTANCE: UNI)
- ORANGE (RESISTANCE: UNI)
- RED (RESISTANCE: UNI)
- GREEN (RESISTANCE: UNI)
- PURPLE (RESISTANCE: UNI)
- WHITE (RESISTANCE: UNI)
- SLATE (RESISTANCE: UNI)
- BLACK (RESISTANCE: UNI)

THE NUMBERS ENCLODED IN PARENTHESES STAND FOR REFERENCE AND ARE NOT ACTUALLY PARTS OF THE PARTS LIST. FOR MORE DETAILS ON THE PARTS LIST, SEE THE TRANSFER DISTRIBUTOR ASSEMBLY AND FOR ACTUAL ACTUATION OF PARTS, SEE THE WIRING LEGEND.

CONTACT ASSEMBLY: A, B, C, D, E


CONTACT ASSEMBLY: M, N, O, P, Q

CONTACT ASSEMBLY: R, S, T, U, V

CONTACT ASSEMBLY: W, X, Y, Z

CONTACT ASSEMBLY: AA

CONTACT ASSEMBLY: AB

CONTACT ASSEMBLY: AC

CONTACT ASSEMBLY: AD

CONTACT ASSEMBLY: AE

CONTACT ASSEMBLY: AF

CONTACT ASSEMBLY: AG

CONTACT ASSEMBLY: AH

CONTACT ASSEMBLY: AI

CONTACT ASSEMBLY: AJ

CONTACT ASSEMBLY: AK

CONTACT ASSEMBLY: AL

CONTACT ASSEMBLY: AM

CONTACT ASSEMBLY: AN

CONTACT ASSEMBLY: AO

CONTACT ASSEMBLY: AP

CONTACT ASSEMBLY: AQ

CONTACT ASSEMBLY: AR

CONTACT ASSEMBLY: AS

CONTACT ASSEMBLY: AT

CONTACT ASSEMBLY: AU

CONTACT ASSEMBLY: AV

CONTACT ASSEMBLY: AW

CONTACT ASSEMBLY: AX

CONTACT ASSEMBLY: AY

CONTACT ASSEMBLY: AZ

CONTACT ASSEMBLY: BA

CONTACT ASSEMBLY: BB

CONTACT ASSEMBLY: BC

CONTACT ASSEMBLY: BD

CONTACT ASSEMBLY: BE

CONTACT ASSEMBLY: BF

CONTACT ASSEMBLY: BG

CONTACT ASSEMBLY: BH

CONTACT ASSEMBLY: BI

CONTACT ASSEMBLY: BJ

CONTACT ASSEMBLY: BK

CONTACT ASSEMBLY: BL

CONTACT ASSEMBLY: BM

CONTACT ASSEMBLY: BN

CONTACT ASSEMBLY: BO

CONTACT ASSEMBLY: BP

CONTACT ASSEMBLY: BQ
I ASSOCIATED CABLE ASSEMBLIES 161886, 3.173441, 173442 AND 173849.

ALL CONNECTORS VIEWED FROM SOLDER END.

TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE NOT MARKED ON COMPONENTS.

FOR SCHEMATIC WIRING DIAGRAM SEE 4275 WD.
Wiring Legend:

- Offset Terminal Designation
- Distinct Terminating Area
- Wire Color Code

Color Code:
- BK - Black
- BR - Brown
- R - Red
- O - Orange
- Y - Yellow
- G - Green
- BL - Blue
- S - Slate
- P - Purple
- W - White

Note:
- All Connectors Viewed From Solders
- Terminal Designations Enclosed in Parentheses: Are Not Marked on Components.

Terminal Block:
- BA: Turret Socket
- BB: Line Jack
- BE: Terminal Block
- BC: Line Jack

Actual Wiring Diagram:

4271 WD

Issue Date: 24/06/86

Approval Code: 173779

Product No.: 4271W0

Date: 24/06/86

Type: E-1a1/t1

Electroni Keyer

4271 WD
C

CABINET TERMINAL BLOCK

NOTE:
WIRING SHOWN IS FOR
LAC CABINETS ONLY.
CUSTOMER MUST DETERMINE PROPER
CONNECTIONS IF MOD. KIT IS USED
IN OTHER APPLICATIONS.

G

POWER FACTOR CORRECTOR

STRAP (31775RM WIRE 0.5FT.)

158991
15 MFD

C-38-O

O

W

C-40-W

158991
15 MFD

STRAP (31771RM WIRE 0.5FT.)

ACTUAL WIRING DIAGRAM
173705 MOD. KIT
TO ADD POWER FACTOR
CORRECTION TO LAC

APPROVALS

D R

M

E 4

PROD. NO. 4286 WD
DATE: 9-20-60
P.D. FILE NO. 18-A.65/2.219A
DRAWN. WPH
CHECKED
ENGD. DCL
APPD.

TELETYPES
CORPORATION

4286 WD
CABINET TERMINAL BLOCK (IN LAAC)

NOTE:
WIRING SHOWN IS FOR LAAC229 CABINET ONLY. CUSTOMER MUST DETERMINE PROPER CONNECTIONS IF MOD. KIT IS USED IN OTHER APPLICATIONS.

POWER FACTOR CORRECTOR

STRAP (3/1775RM WIRE 0.5 FT.)
CABINET TERMINAL BLOCK (IN LAAC)

NOTE:
WIRING SHOWN IS FOR LAAC 229 CABINET ONLY. CUSTOMER MUST DETERMINE PROPER CONNECTIONS IF MOD. KIT IS USED IN OTHER APPLICATIONS.

POWER FACTOR CORRECTOR (AUX. REPERF.)

STRAP (31770RM WIRE 0.5FT.)

ACTUAL WIRING DIAGRAM
173707 MOD. KIT TO ADD POWER FACTOR CORRECTION TO AUX. REPERFORATOR IN LAAC229 (LMU3)
1. Unlith wired for 117 V 50/60 cycle operation only.

2. Selector switch in parallel for all conditions of operation.

3. Switching for input options:
   - .02:0 Amp. neutral operation:
     - 1-2 Open 3-4 Open
   - .060 Amp. neutral operation:
     - 1-2 Strapped 3-4 Open
   - .020 to .031 Amp. polar operation:
     - 1-2 Open 3-4 Strapped

4. For noncool operation terminals 5 & 6 must be strapped. To "blind" the selector (steady marking condition), connect TP7 & TP8 to positive side of power supply through R47 OHM resistor and auxiliary control contacts.


6. All resistors 5% tolerance unless otherwise indicated.

7. Associated Cables:
   - Used On: 178866, 178867, 309494, 178602, 178601, 178508, 178507, 178354, 178355

8. When installing 178602 Cable Assembly:
   - Strapped LEAD TO TERMINAL 6 AS SHOWN.

9. TO ADD ILUMINATING RESISTOR, USED ON 19 "60 SLIDE, 309494 SMD.

10. DO NOT USE FOR POWER SUPPLY (NOT GROUNDED TO CHASSIS) BLACK,
**NOTES**

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<tr>
<td>OR</td>
<td>ORANGE</td>
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<td>SLATE</td>
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<td>W</td>
<td>WHITE</td>
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<td>G</td>
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<td>ON LBASE BASE, TERMINAL 25 SHOWN</td>
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<td>ASSEMBLED WHEN LEAD IS SOLDERED TO BS</td>
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| 4 | ATTACH 10 WIRE BETWEEN PL. A END/TOP |
|   | Connector WITH BASE IS SHOWN |

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<tr>
<th>5</th>
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**DETAILED PROCEDURES**

**4763 WD**

**PROD. NO.**

**DATE:**

**ISSUE DATE:**

**WIRING DIAGRAM**

**BASE ASSEMBLIES**

**APPROVALS**

**WIRING DIAGRAM**

**PROD. NO.**

**DATE:**

**P.O. FILE**

**CORPORATION**

**TELENPE**
1. REFER TO ENCLOSED P.D. SHEET.
2. USE WIRE 20 AWG.
3. USE SLEEVING TO ISOLATE WINDS.
4. Fuse Values:
   X-F 1-1/2 AMP.
5. Color Code:
   BL-BLACK  W-WHITE  P-PURPLE
   BR-BROWN  R-RED    L-LIGHT
   Y-YELLOW  D-OLIVE  S-SLATE
6. A & B; D.C.
   C & 0; A.C.
   E & F; 115 V A.C.

1. Bl-FUSE HOLDER (NOTE q)
2. R-

C1 CAPACITOR  0.1 MFD
C2 CAPACITORS  2-0.1 MFD
NOTES

WIRING LEGEND:

WIRE COLOR CODE:

1. COLOR CODE
   - R: RED
   - B: BLACK
   - O: ORANGE
   - W: WHITE

2. MOTOR OPERATES ON 115 VOLTS A.C.

3. THE NUMBERS ENCLOSED BY PARANTHESES ARE ONLY FOR REFERENCE AND ARE NOT SHOWN ON THE MRT.

4. B-1 - 115V A.C.

5. NOTE 6 - TERMINAL BLOCK - PLUGGED PRI-TIME

6. TERMINAL BLOCK - SPLICE AND TAPE DRAWN.

NOTE 6:

A.

B.

C.

D.

SCHEMATIC

NOTE 6:

TERMINAL BLOCK

NOTE 6:

TERMINAL BLOCK
NOTES:

1. CONNECTOR Viewed FROM SOLID END

B

SHEET LEAD W/Terminal

A

TERMINAL BOARD

CABLE ASSEMBLY

PAPER WINDER

TO MOTOR

ACTUAL WIRING DIAGRAM FOR BASE ASSEMBLY

30422 6 CABLE ASSEMBLY

17-25 16-22

7 19 e 7 1 s e 7 1 9 a l 1 3•• e 7 a e 7 a 3 •• s 7 1 1•

304195

APPROVALS AND REV OF

51 21 37 WD

REVISIONS

ISSUE DATE

DATE: 6-2-64

P.O. FILE NO. 42-A2/65AA

DRAWN.

CHECKED.

ENGINEER

TELETYPE CORPORATION

7137 WD
NOTE 7
All OTHER WIRE
A- I·B K-
STRIP WI T!l
RHI
NECESSARY APPEAR GN THE COMPONENT
CUT LEADS
THE POSITIVE SIDE OF THE OUTPUT
DESCRIPTION SHOWN IN PARENTHESES
CHANGE WAS INITIATED TO REDUCE THE
SOML SET EQUIPMENT, IT H 3/10 IMP 0CT
1/ 2 IMP.

NOTE 8
C-2: W
NOTE 11

NOTE 12
TERMINAL TUR RET
12 00 OR 5000

NOTE 9
NOTE 11
FAME.
C -1 -R
C-1 -R

DRAWN H.C.

FILE NO.

AUTH. NO.
T. I. P.
CHASSIS

SCHEMATIC

TRANSFORMER
(120fJ

CAT.

(1 16783)

-"-

CERTIFICATE

B
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L

-..L

- L

5- 4- 65 87006

72 41 WD

L

4

6-2 2.- £4

5- 4- 65 86 444

65

Wt>

65

1

72 41 WD

A
1. WIRING LEGEND

2. TERMINAL DESIGNATION

3. TERMINAL DESIGNATION

4. COLOR CODE

5. COLOR CODE

6. NUMBERS ENCLOSED IN PARENTHESES ARE FOR REFERENCE ONLY AND ARE NOT MARKED ON COMPONENT.

7. DESIGNATES SPLICE AND TAPE.

8. DESIGNATES SPLICE AND TAPE.

9. PAPER WINDER OPERATES ON 115 V. A.C. 10% 50 OR 60 CYCLES.

10. FOR TELETYPE PERSONNEL REFERENCE: REFER TO SPECIFICATION 60,995 FOR THE 310088 BASE ASSEMBLY AND SPECIFICATION 61,102 S FOR THE 317009 BASE ASSEMBLY.

11. FOR SCHHEMATIC WIRING DIAGRAMS REFER TO 7532 WD FOR 310088 BASE ASSEMBLY AND 7809 WD FOR 317009 BASE ASSEMBLY.

12. NOTE 8

13. BOLT NOT USED ON 317009 BASE ASSEMBLY.

14. BASE CONNECTOR RECEPTACLE

15. BASE MOTOR RESISTOR

16. BATTERY RESISTOR

17. MERCURY SWITCH

18. TERMINAL BLOCK

19. BASE GROUND SCREW

20. ACTUAL WIRING DIAGRAM FOR 310088 AND 317009 BASE ASSEMBLIES

21. APPROVALS

22. DATE: 11-12-64

23. P.O. NUMBER: 8...G

24. DRAFTSMAN: J.A.

25. CHK'D.: <1...£

26. INCIDENTAL.

27. TELETYPE CORPORATION

28. 158250
NOTES

1. NO LEGEND: 1. CONNECTOR TERMINATING AREA
   - SHORT TERMINATING DESIGNATION
   - FINISH COLOR CODE

2. WIRE COLOR CODE:
   - WHITE
   - RED
   - BLUE
   - BLACK
   - G. GREEN
   - ORANGE
   - BROWN
   - YELLOW
   - PURPLE

3. CONNECTOR VIEWED FROM SOLDERED END:
   - STRAIGHT
   - CROOKED

4. ASSOCIATED CABLES:
   - 1N5260 CABLE ASSEMBLY
   - 1N5261 CABLE ASSEMBLY

5. GROUND SHIELDING OF SELECTOR CABLE:
   - GROUND STRAP G

A

SELECTOR PLUG

AA

TYPING UNIT
CONNECTOR

B

CONNECTORS FROM COLOR CODE TERMINAL END.
1. All voltages DC unless otherwise specified.

2. Terminal designations are for reference and are not marked on component.

3. Fuse number 162360 8/0 AMP SLOW BLOWING

4. Terminal numbers appear on associated marking strip.

5. Indicates terminating point.

6. Indicates single shielding.

7. Indicates double shielding.

8. All strapping wire 24 AWG bare. 39603 RM. Use sleeving where required.

9. Indicates 18 AWG stranded wire.

10. Indicates 24 AWG stranded wires.

11. Indicates 24 AWG 2 lead single shielded cable.

12. All surface wire 24 AWG green, 31784 RM, unless otherwise specified.

13. Refer to 8297 WO for schematic wiring diagram.

14. Color codes:
- BK: BLACK
- BL: BLUE
- BR: BROWN
- G: GREEN
- OR: ORANGE
- P: PURPLE
- R: RED
- SL: SLATE
- Y: YELLOW
- W: WHITE

15. Outer shield connected to box at connector.

16. Outer shield connected to box at connector.

17. Transformer assembly reflected on the issue control board, which is part of this drawing.

18. References must also be reflected on the actual wiring diagram for 321250 & 32130 electrical service assembly (clutch).
NOTE: REVISION IN FOR SHEET 1. SEE SHEET FOR NOTES. REVISION MUST ALSO BE REFLECTED ON THE ISSUE RECORD, WHICH IS A PART OF THIS WORK ORDER.

ADD POL to CONNECTOR IN POSITIONS K-6. INDICATED. (2 - PLS)

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.O.

8132 WD

CA 30270 CONNECTOR

PC 30270 CONNECTOR

ADD POL TO CONNECTOR IN POSITIONS K-6. INDICATED. (2 - PLS)

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.O.

8132 WD

CA 30270 CONNECTOR

PC 30270 CONNECTOR

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8132 WD

CA 30270 CONNECTOR

PC 30270 CONNECTOR

ADD POL TO CONNECTOR IN POSITIONS K-6. INDICATED. (2 - PLS)

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.O.

8132 WD
I. R3 and R15 are adjusted for symmetrical swing about zero volts for input 1 and 2 respectively.

2. Pins 1, 3, 60 mA to coil pins C, O - 107 to 53 V DC power input

3. Pins N, P - MS 1888 signal input 1

4. Pins E, F - MS 1888 signal input 2

5. All inputs, I. HD output referred to circuit 00141011 l

6. All resistors are 5%, 1/2 Watt unless otherwise specified.

7. All capacitance values in microfarads unless otherwise specified.

8. Denotes circuit common.


10. R3 - 500 kΩ

11. R2, R15 - 100 kΩ

12. R13 - 5 001(1

13. R8, R19 - 620 kΩ

14. R9 - 1.3 kΩ

15. R20 - 680 kΩ

16. CR1 - 4.7 kΩ

17. Q1 - 2M 1893

18. CR2 - 1N4102

19. R5 - 10 kΩ

20. Q2 - 2NJ05J

21. Q4 - 1N4148 3A

22. CR5 - 0.15 M FD

23. C2 - 47 M FD

24. R11 - 22 kΩ

25. CR10 - 12

26. R12 - 3.1 kΩ

27. CR11 - 500 kΩ

28. R17 - 680 kΩ

29. R18 - 50 kΩ

30. CR5 - 6.2 MV

31. CR6 - 0.01 MV

32. C4 - 4.7 MV

33. R6 - 47 kΩ

34. R7 - 1 MV

35. CR8 - 100 MF

36. C5 - 4.7 MF

37. R13 - 3.3 kΩ

38. CR9 - 100 MV

39. C6 - 220 MF

40. R14 - 100 kΩ

41. CR10 - 100 MV

42. C7 - 220 MV

43. R15 - 1 kΩ

44. Q3 - 1N817

45. C3 - 100 MV

46. R16 - 220 kΩ

47. C8 - 0.1 MF

48. Q5 - 1N817

49. R17 - 620 kΩ

50. C9 - 0.15 MF

51. R18 - 680 kΩ

52. C10 - 0.01 MF

53. R19 - 680 kΩ

54. C11 - 0.01 MF

55. R20 - 680 kΩ

56. C12 - 0.01 MF
NOTE 1 - CONNECTION VENES FROM SOLDER TERMINAL END.

2. SELECTOR MAGNETS ARE WIRED FOR .060 AMPERE OPERATION AND USE WITH SELECT OR MAGNET SHELL TERMINAL AND SHIELD.

3. COLOR CODE:
   - R - RED
   - W - WHITE
   - BK - BLACK

4. REFERENCE SPEC. FOR TELETYPE CORPORATION EMPLOYEES ONLY.

5. LEGEND:
   - DR - DRAIN CL - CLEAR INSULATION

6. REFER TO APPROPRIATE ACTUAL AND SCHEMATIC WIRING DIAGRAM FOR SELECTOR NUMBER.

NOTE A - SOLDER TERMINAL AND WIRE ASSEMBLY.
See Issue Control Record for complete list of sheets comprising this W.O. Sheet 2 of 2. 326270 Connector.

Notes:

1. Add polarizing key to connector in positions indicated (1979).
NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD WHICH IS PART OF THIS W.O.
SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.O.
<table>
<thead>
<tr>
<th>SHEET</th>
<th>TEXT</th>
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<tr>
<td>2</td>
<td>OTHER END TERMINATION</td>
</tr>
<tr>
<td></td>
<td>COMP. /TERM DESIG.</td>
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<tr>
<td></td>
<td>SHT.</td>
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<td></td>
<td>TC 608 (I0-66)</td>
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<tr>
<td></td>
<td>COMP.</td>
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<td></td>
<td>COMP. DESIG.</td>
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<td></td>
<td>COMP. NO.</td>
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<td>ASSOC.</td>
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<td>ASSEM.</td>
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<td>SID E</td>
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<td>NOTE+</td>
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<td>16</td>
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<td></td>
<td>NO TES</td>
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<td></td>
<td>REFER TO SHEETS I FOR NOTES.</td>
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<tr>
<th>SHEET</th>
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<tr>
<td>8330 WD</td>
<td>ACTUAL WIRING DIAGRAM FOR 325919 CONTAINER ASSEMBLY (SIGNAL)</td>
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<tr>
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<td>APPROVALS</td>
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<td>ORD.</td>
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<td>DATE</td>
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<td></td>
<td>REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD, WHICH IS PART OF THE W.D. SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISED THIS W.O.</td>
</tr>
<tr>
<td></td>
<td>8330 WD</td>
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</table>
14. TERMINALS T85 AND T86 ARE USED TO PROVIDE EXTERNAL BATTERY TO THE KEVER IN SEND-RECEIVE SETS AS FOLLOWS: REMOVE, TAPE AND TIE BACK THE LEADS CONNECTED TO TB5 AND TBS WHICH EMERGE FROM THE 321130 CIRCUIT CARD. APPLY BATTERY (6.6 TO 7.8V) TO TBS AND BATTERY TO TB6.

15. TB2 AND TB4 ARE THE NORMAL SELECTOR MAGNET DRIVER INPUT. (+6V MARK, -6V SPACE) TBI IS AN AUXILIARY INPUT TO THE SELECTOR MAGNET DRIVER. AS SHIPPED, TB3 IS STRAPPED TO TBI SO THAT THE LP WILL MONITOR TRANSMISSION FROM THE KEVER. FOR FULL DUPLEX OPERATION REMOVE THIS STRAP.

18. CONNECT POWER INPUT SHIELDING, IF SO EQUIPPED, TO TAB. STRAP BETWEEN TAB AND TA9 IS INTENDED FOR OPTIONAL SHIELD GROUNDING. REMOVE IF DESIRED.

19. INDICATES OUTER SHIELD INDICATES INNER SHIELD INDICATES SPLICE TAPE TB3 TB4 IS THE KEVER OUTPUT +6VDC MARK -6VDC SPACE

NOTE: REVISION MUST ALSO BE RECORDED IN THE ISSUE CONTROL RECORD WHICH IS A PART OF THIS WD. FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.O.

S-4-77
28-RFK2000B OR 325918 AS PART OF 28-RFK2001B RACK-MOUNTED SEND-RECEIVE PRINTER SET

APPROVALS

DATE: 8-5-73

DRAWN: T.H.G.

CHECK: E.H.G.

NOTE: REFER TO 8326 WD.
NOTES
REFER TO SHEET I FOR NOTES.

ADD MILLIAMPERES KEY TO CONNECTOR IN POSITIONS AS INDICATED (5 PLCs).

COVER WIRES BEFORE SOLDERING WITH THERMOPLASTIC TUBING (12 PLCs).

ADD RESISTORS (1)
(2)
(3)
(4)
(5)
(6)

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS SHEET AS ACTUAL WIRING DIAGRAM FOR ELECTRICAL SERVICE ASSEMBLY (SIGNAL).
1. RESISTORS 1/2 WATT, RESISTANCE VALUES IN OHMS, CAPACITANCE VALUES IN MICROFARADS UNLESS OTHERWISE SPECIFIED.

2. TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESIS ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENT.

3. SL CASE 1-10 INDICATES SL-1-10 ING.

4. INDICATES FEMALE TERMINAL.

5. INDICATES MALE TERMINAL.

6. REFER TO REQUIRED SOURCE DIAGRAMS FOR ACTUAL WIRING DIAGRAM.

7. REFER TO REQUIRED SOURCE DIAGRAMS FOR EXTERNAL CIRCUITS.

8. INDICATES SINGLE SHEILDING.

9. INDICATES DOUBLE SHEILDING.

10. CUSTOMER TO MAKE THESE CONNECTIONS AS SHOWN.

II. INDICATES GROUND.
ON THE LEFT SIDE OF R4, R10, R16, COM

SPACING OF 1/4" AT DIFFERENCE BETWEEN THE UNREGULATED
GAIN MIDDLE CR 6.5 AND CR 5 FOR BASIC SH

FROM NOMINAL POSITION.

AIr

B. P.

APPROVALS

D.

RECOMMENDATION

PART

TOTAL

NAME AND DESCRIPTION

RF FILTER

RF FILTER

RF FILTER

RF FILTER

RF FILTER

RECTIFIER FILTER

RECTIFIER FILTER

RECTIFIER FILTER

RECTIFIER FILTER

RECTIFIER FILTER

VERTICAL COIL

VERTICAL</returns>
FILTER CARD ASSEMBLY

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>NAME AND DESCRIPTION</th>
<th>LOCATION FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1</td>
<td>5.6 K 1/4 WATT RESISTOR</td>
<td></td>
</tr>
<tr>
<td>R2</td>
<td>SAME AS R1</td>
<td></td>
</tr>
<tr>
<td>R3</td>
<td>1000 1/4 WATT RESISTOR</td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>50 PF</td>
<td>CAPACITOR, BATTERY</td>
</tr>
<tr>
<td>T1</td>
<td>-</td>
<td>TERMINAL, SOLDER</td>
</tr>
<tr>
<td>T2</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>T3</td>
<td>-</td>
<td>STUB, CONNECTOR</td>
</tr>
<tr>
<td>T4</td>
<td>IS4041</td>
<td>BOARD, STUFFED CROPPED</td>
</tr>
</tbody>
</table>

NOTE:
DESIGN UNLESS INDICATE EXTERNAL CIRCUITRY.

SCALE: 2/1
STOCK SPECIFICATION:

RODD OSC. 32/268